

Software for hydraulic device tests

AQ2TB-EN12293

Applications: software suitable to perform thermal cycle tests on multi-layer piping assemblies and fittings.

Standard reference: EN12293 - DVGW-W534 - ISO 1587-5 - ISO 21003-5 - SI 5433-5 - AS/NZS 4020.

The software allows to perform tests to determine the resistance to thermal cycles pipes and fitting assemblies, made of rigid or flexible thermoplastic multi-layer material. The test consists to submit the device to temperature cycles with the passage of alternating hot and cold water under pressure.

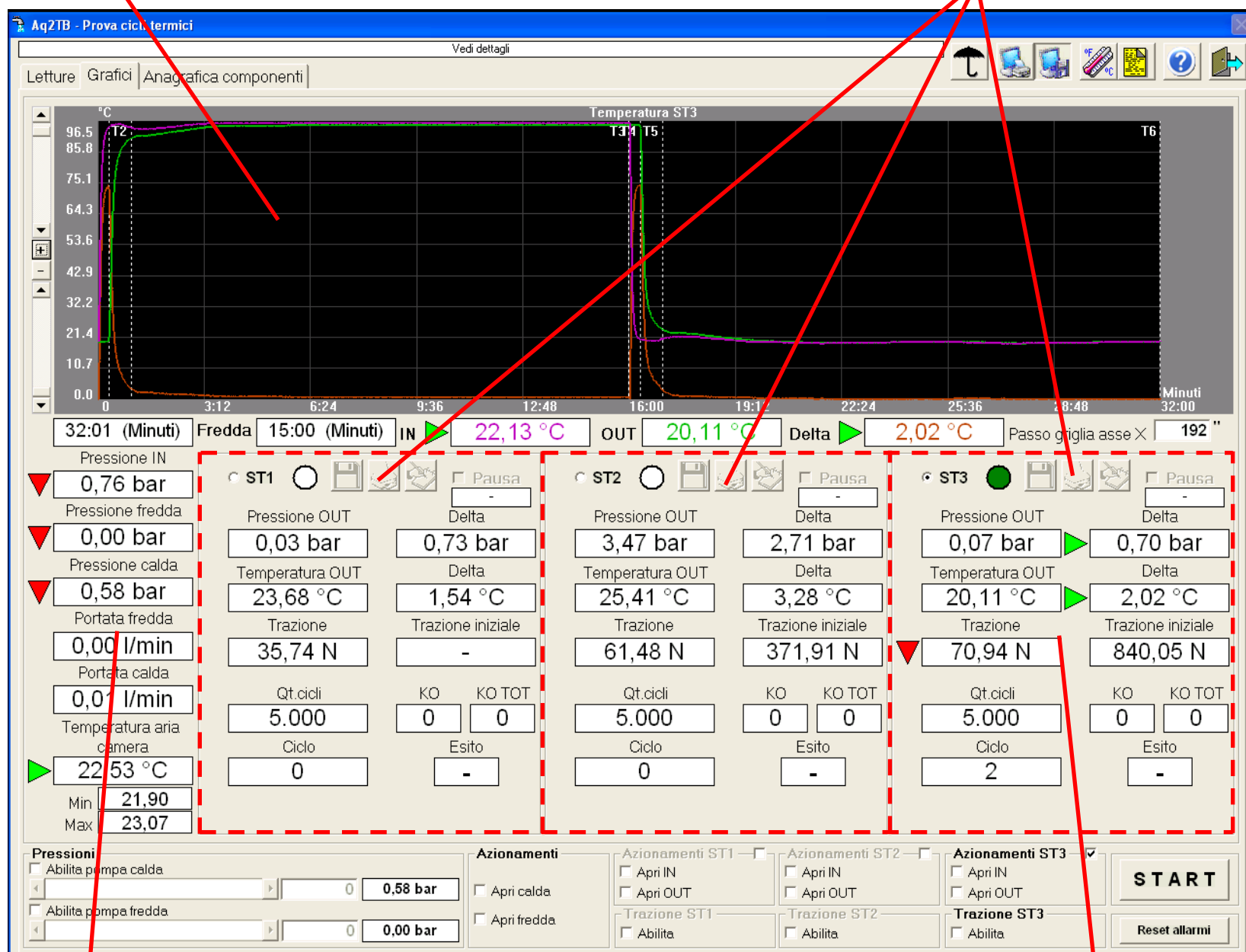
While they are subjected to thermal cycles, some parts of the pipe-fittings assembly are maintained under load by the use of static constraints, the software measures the initial traction at which the device is subjected before being constrained at the test station.

The software is able to manage three stations simultaneously and allows to acquire the main parameters of the test bench in real time, by providing a documentation of the tests in progress through specific screens: management panel with data of components and customer; panel for setting start-up limits, test parameters and operating range; reading panel with interactive synoptic plant; control panel for tests in execution divided into three stations indicating the general test parameters (temperature, pressure, flow-rate and force) acquired in real time, indication of the number of cycles performed and possible anomalies.

All the screens can be printed accompanied by annotations and customer logo.

TEMPERATURE CHART FOR EACH STATION

STATION 1 - 2 - 3



SUMMARY OF WATER SUPPLY PRESSURE AND TEMPERATURE

PRESSURE - TEMPERATURE - FORCE AND SUMMARY OF CYCLES



Setting of test parameters:

SETTING OF TEST CHAMBER TEMPERATURE

SETTING OF THE WATER PRESSURE AND TEMPERATURE

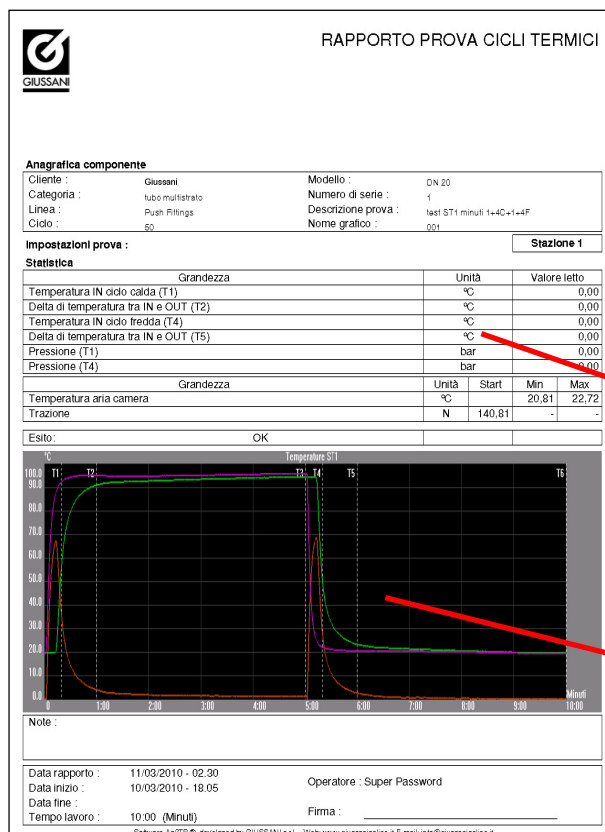
SETTING OF THE WAITING TIME AND THE STABILIZATION TIME

SETTING OF THE INTERRUPTION LIMITS

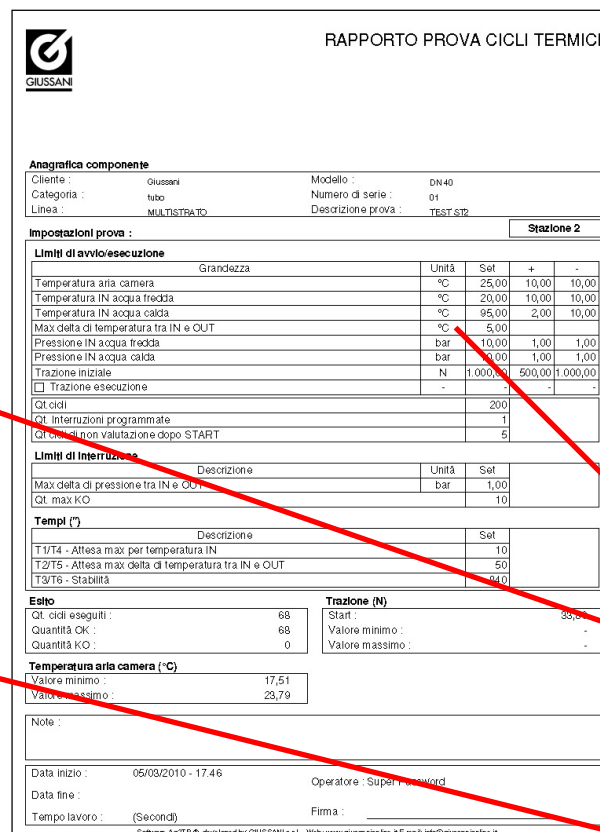
SETTING OF START-UP LIMITS AND EXECUTION PARAMETERS

Example of test report:

One-cycle report



Full report



List of messages

Descrizione prova	Data e Ora	Errore	Messaggio
NTM tubo MULTISTRATO DN 40/01/TEST ST2	05/03/2010 17:54:00	0	Stazione 2 -> Ripresa prova
	06/03/2010 04:39:28	3	Generico vasca acqua fredda KAW
	06/03/2010 04:39:28	0	Stazione 2 -> Interruzione prova
	06/03/2010 07:11:22	0	Stazione 2 -> Ripresa prova
	06/03/2010 16:45:08	3	Generico vasca acqua fredda KAW
	05/03/2010 17:46:27	0	Stazione 2 -> Creazione nuova prova
	05/03/2010 17:51:06	3	Generico vasca acqua fredda KAW
	06/03/2010 16:45:08	0	Stazione 2 -> Interruzione prova
	06/03/2010 17:57:39	0	Stazione 2 -> Ripresa prova
	06/03/2010 19:20:12	3	Generico vasca acqua fredda KAW
	06/03/2010 19:20:12	0	Stazione 2 -> Interruzione prova
	05/03/2010 17:51:06	0	Stazione 2 -> Ripresa prova
	05/03/2010 17:52:44	0	Stazione 1 -> Ripresa prova
	05/03/2010 17:52:51	0	Stazione 1 -> Interruzione prova
	07/03/2010 11:04:44	0	Stazione 2 -> Ripresa prova
	07/03/2010 14:07:50	3	Generico vasca acqua fredda KAW
	07/03/2010 14:07:50	0	Stazione 2 -> Interruzione prova
	07/03/2010 21:42:58	0	Stazione 2 -> Ripresa prova
	08/03/2010 07:45:06	0	Stazione 2 -> Interruzione prova

SUMMARY OF MESSAGES

SUMMARY DATA OF THE TESTS

SUMMARY OF CHARTS

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